

Abstract of the Disclosure

The invention provides isolated nucleic acids molecules, designated hVR-1, hVR-2, and rVR-2 nucleic acid molecules, which encode novel members of the Capsaicin/Vanilloid receptor family. The invention also provides antisense nucleic acid molecules, recombinant expression vectors containing hVR-1, hVR-2, and rVR-2 nucleic acid molecules, host cells into which the expression vectors have been introduced, and nonhuman transgenic animals in which an hVR-1, hVR-2, and rVR-2 gene has been introduced or disrupted. The invention still further provides isolated hVR-1, hVR-2, and rVR-2 proteins, fusion proteins, antigenic peptides and anti-hVR-1, anti-hVR-2, and anti-rVR-2 antibodies. Diagnostic methods utilizing compositions of the invention are also provided.